

Title (en)

METHOD FOR PRODUCING A PIEZOELECTRIC TRANSDUCER

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES PIEZOELEKTRISCHEN WANDLERS

Title (fr)

PROCEDE DE FABRICATION D'UN TRANSDUCTEUR PIEZO-ELECTRIQUE

Publication

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Application

**EP 00982998 A 20001012**

Priority

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Abstract (en)

[origin: WO0135468A2] The invention relates to a method for producing a piezoelectric transducer comprised of piezoelectric fibers arranged in a polymer matrix. According to the inventive method, the piezoelectric fibers (2) or fiber pieces are covered by a liquid polymer material such that the longitudinal axes of the fibers or fiber pieces are distributed in a preferred direction (3). These fibers (2) are then compacted together and the polymer material is cured. The resulting composite is subsequently processed such that areas (5) of the fibers (2) or fiber pieces are exposed along the preferred axis (3). Afterwards, electric contacts (6) are applied to at least one part of the exposed areas (5). The inventive method makes it possible to produce electromechanical transducers comprised of piezoelectric fibers in a very simple and economical manner.

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